



**LEGEND**

- FACTORY LINE VOLT WIRING
- - - FACTORY LOW VOLT WIRING
- - - FIELD LINE VOLT WIRING
- - - FIELD LOW VOLT WIRING
- PRINTED CIRCUIT TRACE
- OPTIONAL WIRING
- RELAY / CONTACTOR COIL
- ⊖ THERMISTOR
- ⊖ CONDENSATE PAN
- ⊖ CIRCUIT BREAKER
- LED
- △ SPLICE CAP

- CAPACITOR
- ⊖ SOLENOID COIL
- ⊖ RELAY CONTACTS - N.O.
- ⊖ TEMPERATURE SWITCH
- ⊖ SWITCH-HIGH PRESSURE
- ⊖ SWITCH-LOSS OF CHARGE
- ⊖ GROUND
- ⊖ WIRE NUT

- AL ALARM RELAY CONTACTS
- ASTAT AQUASTAT
- CAP COMPRESSOR CAPACITOR
- CB CIRCUIT BREAKER
- CC COMPRESSOR CONTACTOR
- DISC UNIT DISCONNECT
- FP1 SENSOR, SOURCE WATER LOW TEMP PROTECTION
- FP2 SENSOR, LOAD WATER LOW TEMP PROTECTION
- HP HIGH PRESSURE SWITCH
- HPTS HIGH (LEAVING) WATER TEMP. SWITCH
- LOC LOSS OF CHARGE PRESSURE SWITCH
- MV MOTORIZED VALVE (SOURCE WATER)
- PI FIELD WIRING TERMINAL BLOCK
- PB POWER TERMINAL BLOCK
- PDB POWER DISTRIBUTION BLOCK
- RVS REVERSING VALVE SOLENOID
- SAC START ASSIST CAPACITOR
- TRANS TRANSFORMER
- OPTIONAL WIRING

**NOTES**

1. COMPRESSOR THERMALLY PROTECTED INTERNALLY.
2. ALL WIRING TO THE UNIT MUST COMPLY WITH NEC & LOCAL CODES.
3. TRANSFORMER IS WIRED TO 265V (BRN) LEAD FOR 265/1/60 UNITS. FOR 220-240V OR 230V, DISCONNECT (BRN) LEAD AT LI AND CONNECT (ORG) LEAD TO LI; CLOSE OPEN END OF BRN AND RED LEADS WITH INSULATION TAPE. FOR 208V, DISCONNECT (BRN) LEAD AT LI AND CONNECT (RED) LEAD TO LI. CLOSE OPEN ENDS OF BRN AND ORG LEADS WITH INSULATION TAPE. TRANSFORMER IS ENERGY LIMITING OR MAY HAVE CIRCUIT BREAKER.
4. FPI THERMISTOR PROVIDES FREEZE PROTECTION FOR SOURCE WATER. WHEN USING ANTI-FREEZE SOLUTIONS, CUT JW3 JUMPER.
5. CHECK INSTALLATION WIRING INFORMATION FOR CONTROLLER HOOKUP REFER TO CONTROL INSTALLATION INSTRUCTIONS FOR WIRING TO THE UNIT. CONTROL WIRING MUST BE "CLASS 1" AND VOLTAGE RATING EQUAL TO OR GREATER THAN UNIT SUPPLY VOLTAGE.

6. TRANSFORMER SECONDARY GROUND VIA CXM BOARD STANDOFFS & SCREWS TO CONTROL BLD. (GROUND AVAILABLE FROM TOP TWO STANDOFFS AS SHOWN.)
8. AQUA STAT IS SUPPLIED WITH UNIT AND MUST BE WIRED IN SERIES WITH THE HOT LEG TO THE PUMP. AQUA STAT IS RATED FOR VOLTAGE UP TO 277V.

**CXM CONTROLLER FAULT CODES**

DESCRIPTION OF OPERATION	LED	ALARM RELAY
NORMAL MODE	ON	OPEN
NORMAL MODE W/ UPS WARNING	ON	CYCLE (CLOSED 5 SEC. OPEN 25 SEC.)
CXM IS NON-FUNCTIONAL	OFF	OPEN
FAULT RETRY	SLOW FLASH	OPEN
LOCKOUT	FAST FLASH	CLOSED
OVER/UNDER VOLTAGE SHUTDOWN	SLOW FLASH	OPEN (CLOSED AFTER 15 MIN.)
TEST MODE-NO FAULT IN MEMORY	FLASHING CODE 1	CYCLING CODE 1
TEST MODE-HP FAULT IN MEMORY	FLASHING CODE 2	CYCLING CODE 2
TEST MODE-LP FAULT IN MEMORY	FLASHING CODE 3	CYCLING CODE 3
TEST MODE-FPI FAULT IN MEMORY	FLASHING CODE 4	CYCLING CODE 4
TEST MODE-FP2-FAULT IN MEMORY	FLASHING CODE 5	CYCLING CODE 5
TEST MODE-CO FAULT IN MEMORY	FLASHING CODE 6	CYCLING CODE 6
TEST MODE-OVER/UNDER SHUTDOWN IN MEMORY	FLASHING CODE 7	CYCLING CODE 7
TEST MODE-UPS IN MEMORY	FLASHING CODE 8	CYCLING CODE 8
SWAPPED FPI/FP2 LOCKOUT	FLASHING CODE 9	CYCLING CODE 9

